

PATENT ABSTRACTS OF JAPAN

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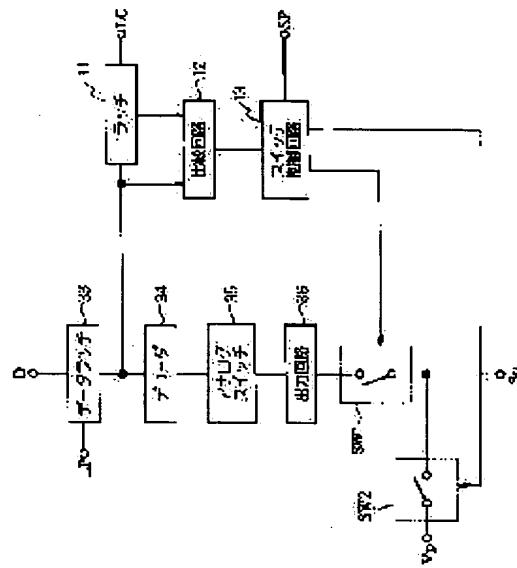
(21)Application number : 2001-027042 (71)Applicant : NEC CORP
(22)Date of filing : 02.02.2001 (72)Inventor : KOSAKA RYOSUKE

(54) SIGNAL LINE DRIVING CIRCUIT OF LIQUID CRYSTAL DISPLAY DEVICE AND SIGNAL LINE DRIVING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce power consumption of a liquid crystal display device which is provided with a precharge means.

SOLUTION: The signal line driving circuit is used for an active matrix type liquid crystal display device, supplies an intermediate potential V_p as a precharge voltage and gradation voltages corresponding to image data to a plurality of signal lines and has a latch 11 and a comparator circuit 12, through which image data prior to one horizontal interval and the image data to be displayed next are compared for every signal line, and a switch control circuit 13 which supplies the intermediate potential V_p in accordance with the result of the comparison in the circuit 12. The current loss normally associated with precharge is reduced because no precharge is conducted when a high speed and stable writing is made possible even though no precharge is conducted.



LEGAL STATUS

[Date of request for examination]

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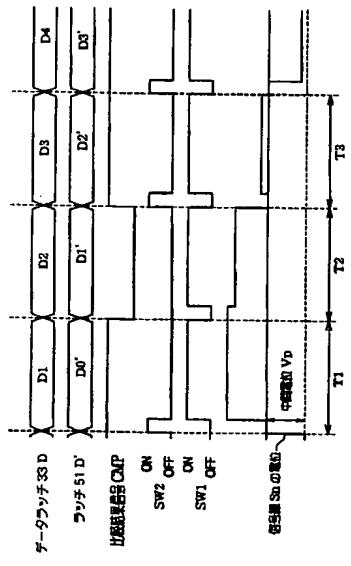
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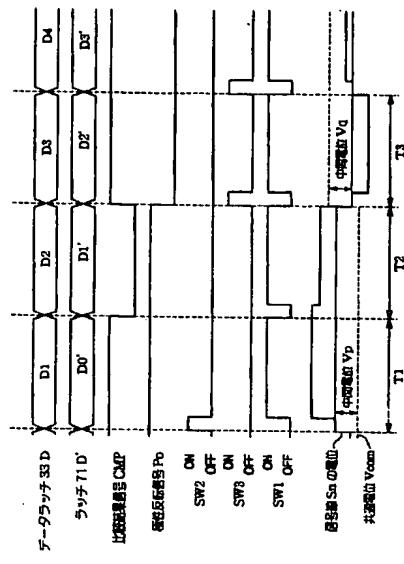
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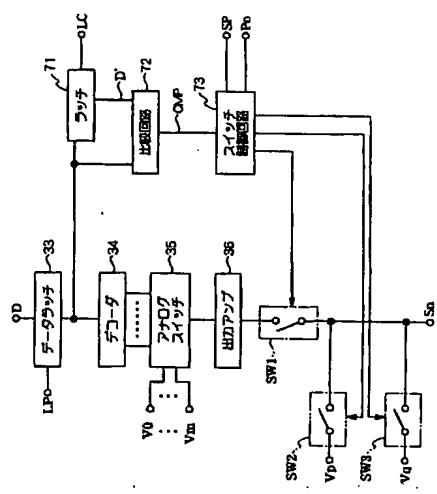
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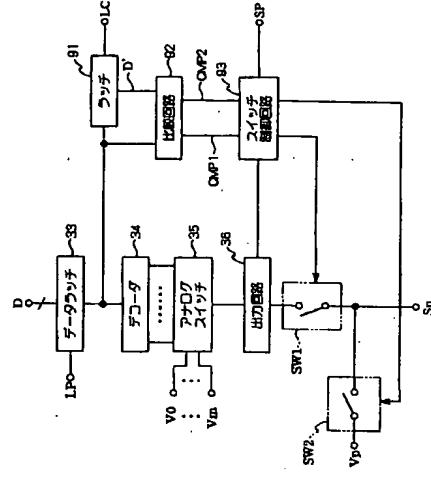
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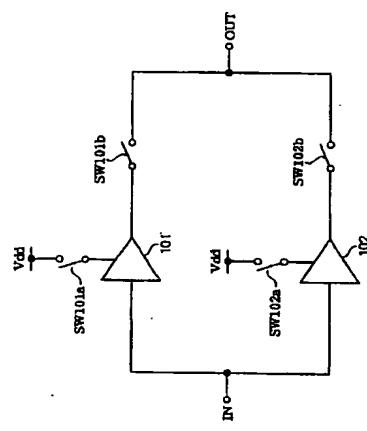
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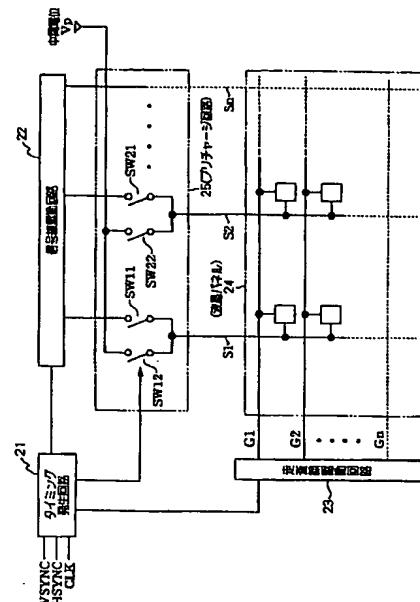
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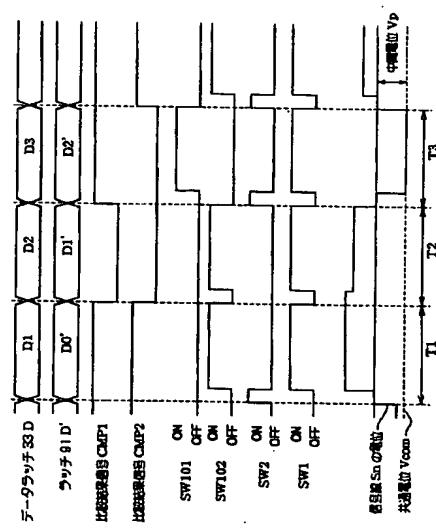
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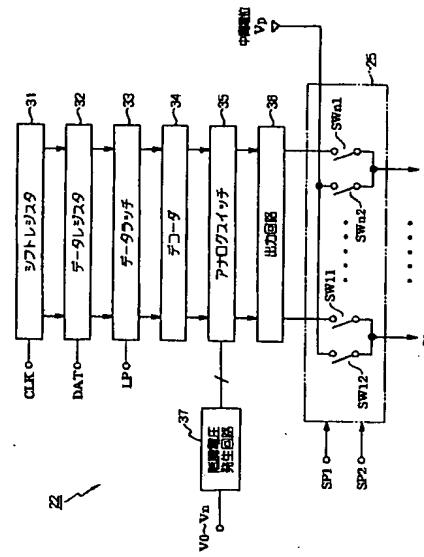
[図9]



[図8]



[図8]



[図10]

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【図11】

